

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L20 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
AN 2002:206776 CAPLUS
DN 136:218614
TI Manufacture of polyfluorinated alcohols
IN Uklonskii, I. P.; Denisenkov, V. F.; Il'in, A. N.; Ivanova, L. M.;
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SO Russ.; No pp. given
CODEN: RUXXE7
DT Patent
LA Russian

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	RU 2150459	C1	20000610	RU 1999-110255	19990525
PRAI	RU 1999-110255		19990525		
AB	Polyfluorinated alcs. ROH (R = CHF ₂ CF ₂ CH ₂ , CF ₃ CHF ₂ CF ₂ CH ₂) were manufactured with improved yield by heating peroxide initiator solution (concentration 3.5-15.4%) in aliphatic alc. to 110-120° under pressure of 3.4-6.5 kg/cm ² followed by controlled feeding F-containing olefin in an excess to the alc. and increasing the pressure to 9-15 kg/cm ² and temperature to 150°. The process is carried out preferably at mol. ratio fluoroolefin /initiator (7.2-28.2):1 and the reaction mixture is heated in the presence of 0.2-1.2% polyfluorinated alc. (based on total alcs.). Under those conditions the inductive decomposition of radical initiators is avoided. Thus, CHF ₂ CF ₂ CH ₂ OH was manufactured in 99.8% yield by addition reaction of MeOH with CF ₂ :CF ₂ in the presence of (Me ₃ CO) ₂ .				

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DERWENT-ACC-NO: 2000-654643

DERWENT-WEEK: 200063

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TITLE: Method of synthesis of polyfluorinated alcohols

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PRIORITY-DATA: 1999RU-0110255 (May 25, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
RU 2150459 C1	June 10, 2000	N/A
000 C07C 031/38		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
RU 2150459C1	N/A	1999RU-0110255
May 25, 1999		

INT-CL (IPC): C07C031/38

ABSTRACTED-PUB-NO: RU 2150459C

BASIC-ABSTRACT:

NOVELTY - Invention relates to method of synthesis of polyfluorinated alcohols of the formula: R-OH where R is HCF₂CF₂CH₂-, CF₃CFHCF₂CH₂- by heating peroxide initiator solution (concentration is 3.5-15.4 wt.%) in aliphatic alcohol under pressure 3.4-6.5 kg/cm² to fixing temperature 110-120 C followed by controlled feeding fluoro-containing olefin to excess of this alcohol and increase of pressure to 9-15 kg/cm² and temperature to 150 C. Process is carried

out

expediently at mole ratio fluoroolefin : initiator = (7.2-28.2):1 and heating

is carried out in the presence of polyfluorinated alcohol taken in the amount

0.2-1.2% of loaded alcohol mass.

USE - In chemical technology.

ADVANTAGE - Increased yield of end product.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: METHOD SYNTHESIS POLYFLUORINATED

DERWENT-CLASS: E16

CPI-CODES: E10-E04C; E10-E04F;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-198095